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An.

Inaugural Essay. P.p.d

on the

Modus Operandi of External Irritants.

Submitted to the Faculty of Medicine.

of the

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by

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How earnestly does it may be desired, and how  
seldom actually it may be sought for. Perfection, in any particu-  
lar, as a science, is indeed but seldom to be attained. The mind  
of man eager in the pursuit of knowledge, enlarged & expanded  
in proportion to the ardour with which it grasps and improves  
the various means of gratifying its thirst for information, whilst  
favourable circumstances or the peculiar exertions of the indi-  
vidual may have placed within his reach. But all the while  
the mind is thus constantly progressing & constantly be-  
coming more & more enriched with the treasures of  
Science, it may, however, can arrive at that point beyond  
which no field is presented for the active exercise of  
its powers. There are many of the arts & sciences, however,  
which have added to the comfort & happiness of domes-  
tic & civil life, which, if not carried to their utmost limits,  
are stamped at least with certainty, as far as they have  
progressed. Each step which has been taken is based on  
truth - each supports the other, and the mind can follow

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on with pleasure, for it meets with no extravagant, unproven  
theory to perplex. Unfortunately such is not such cannot be  
the case with all. Still there is among some a greater joining  
a greater discordance of principles, than we might naturally  
expect. And, when we consider the bearing which the science of  
Medicine, has upon the comfort of life; how much the agi-  
-gation of happiness depends upon the right understanding of  
its principles, and the proper management of its remedies  
in and we are induced, before we become acquainted with  
the actual state of the science, most cordially to hope that  
it has, if not perfected, at least, a great degree of certainty &  
unanimity of sentiment among those who profess to be its  
retainers - and when we remember the genius - the skill &  
learning, which have collected under its banners, we  
are naturally led to the conclusion that such must be the case.

A contemplation of the history of  
Medical Science, its rise and progress, would be calculated  
to induce us to suppose, that surely no malady now exists,  
which had not its antidote among the host of remedies which have  
from time to time, continually been introduced, as ornaments

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of the *Matræ Medicæ*. He would be prepared to ask, what disease is this, to what humanity is this. Still remaining, alas, "opprobrium Medicorum"? What human, against the ravages of which man has not protracted an effectual barrier? Surely we know of none whose terror was not, at some period, to yield to the remedial efforts of some cathartic. Those diseases which had baffled the cautions of the most learned & experienced of the profession - which refused to yield to the united efforts of skill, intelligence & extensive observation, and which had for ages remained as sad memorials of the still imperfect condition of medical science seem to have submitted finally before the happy discovery of some previously unknown remedy. The specific virtues have been announced to the world & future fame & a lasting reputation is warmly & deservedly anticipated, by the self-denied fortunate discoverer. *Postume*, indeed, would it be for him, & fortunate for the world now it funds that frequently one half of his statements attest the truthfulness of experience, and, that Time, the genuine test of excellence, would sanction the decision - Sometimes like the "baleful fallacy of a vision" - it goes no

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further than the delayed judgment of the promulgator. His mind will  
Caution tithed - founds insufficient & forgotten. At other times, there are  
not wanting those, who, apparently, guiding the privilege of  
examining & reasoning for themselves, willingly and unhesitatingly  
enlist under the banners of error, and this time, the perhaps, ear-  
nestly, to promote the cause of Abolition & misrepresentation.

Now then individuals beyond the pale of medicine or confined to  
the lower walks of the profession, the evil would be comparatively  
slight; but when we see men whose abilities have ranked them  
among the ornaments of the Science, & whose Countenance &  
Support always predisposed us to receive as Certain, whatever  
may have the sanction of their beliefs, then we see facts,  
notwithstanding the evidence of error, easily to be persuaded,  
giving their aid to uphold the oppressive, oppressive, misrepresen-  
tation or delusion - we cannot condemn the suspicion which  
in all ages many have conceived respecting the efficacy of  
medicinal agents. But a short time since our Hagar-  
phobic was to guide its gigantic terrors, to shed a little  
experience proved to be "as hurtful & spring, no power of  
any kind - producing no effect more than a decoration

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of paper or stone, being absurdly call'd a medicine and ~~propos'd~~  
 as a remedy for a malady always distressing I generally fals<sup>y</sup>  
 (Baston) - The Scutellaria Saturiflora, will always be  
 carry with it the conviction, that judgment may indeed be  
 sometimes successfully depriv'd, I genius made the instrument  
 for the promulgation of error - Plithus's Pulmonaria  
 still baffles the cautions of Skill & experience, but numerous  
 are the statements of those who prepared these medicines,  
 which, from the statements of those who prepared them, were  
 to shield its victims from the mournful result which now  
 it generally attends it -

This has been the case with numerous articles, and has  
 not been confined to those which, upon mature and deliberate  
 investigation, have been found to be of very doubtful prop-  
 erty; but the discrepancy of opinion has existed with respect  
 to many which are characterized by powerful action; and,  
 indeed, what article is there, among the vast Catalogue of remedies,  
 which can do the list of the Materia Medica, the use of which is  
 sanctioned by general approbation? That particular deserves  
 it then, in the treatment of which, there does not exist great

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disparity of sentiment respecting the utility of almost every proposed remedy? A reference to the history of the Nat. Anti-Slavery Society shows a host of articles, which have supplied our ephemeral literature, which have sprung into notice, gifted with all the candour that disinterested enthusiasm could bestow, have lived their hour, disappeared & become unknown: & the names of which, only remain to point out how great abuses we may be made to misguide judgments -

The student has many difficulties to encounter. Induced by a hope of having it in his power to alleviate in some degree the sufferings of humanity, he engages in the study of his chosen & interesting profession. Induced by a holy emulation to excel, he commences and pursues his path, perhaps with enthusiastic ardour. The alluring and pleasing nature of his application leads him unwittingly onwards. For a moment of zealous emulation, he deems nothing short of perfection can satisfy him. But soon his ardour receives a check, for he makes but little progress, before he finds himself benighted and perplexed amidst the clashing of too many & discordant truths. He finds himself in a labyrinth, with

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many ways to proceed - but now, as for as he is able to judge, he  
leads him safely through - He must with an open eye and  
tradition of some, he has found laid down by some author pre-  
-viously made. He reflects upon the mooted point - but can come  
to no satisfactory conclusion - Don't rank high in this paper,  
and both should be admitted - but which mark? Perforce to a third  
author, who, frequently, has added to his perplexity; both opinions  
he may have found condemned, a new one advanced.

Willing to believe that such discrepancy of opinions, rare but  
rarely occur, he leaves the subject, his doubts fixed. But ere long  
a similar difficulty arises on other - and on other, I find  
he finds himself surrounded by contrary statements,  
each on right, of his own assertions he recovers, neither, if  
that of his mother practitioners be considered - What then  
is he to do? Become the submissive, echo of some great name?  
That would be to yield, had reason Captain; he feels that instead  
of enlarging his views & thinking for himself, he must by re-  
-doing him, his every thought to the absurd scheme of another & go  
just when he may please direct. He had determined perhaps to  
be the ~~man~~ <sup>man</sup> known - "Nullius in verba mequetur" -

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to listen to all, but to claim the privilege of forming his own conclusions! And, thus, amidst his profuseness, what can he do? but that his words or go on uncertain of his way - wrap in a certain cloud of obscurity, I doubt - his ardour evokes his zealous emulation too?

"A discordance," says Dr Jackson, "in the results of experience exists, where authority is equal & fact of pugna facti, with but equal weight of testimony, and renders a decision extremely embarrassing on some of the most important facts, both theoretical & practical - all that has hitherto been written has left the question wholly undecided, & thus still presents a wide diversity of sentiment respecting them"

Though, as we have stated, short lived indeed has been the glory of many a boasted remedy, there still remain those whose virtues have stood the test of ages of experience, & whose value must ever be appreciated. It is the time may be, perhaps, still far distant (notwithstanding the warmth with which its arrival may be anticipated) when a perfect unanimity of sentiment will exist among medical men, respecting their proper exhibition -

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How much to be wished, that someone, whose talents & extensive observations, may have equalled to the task, would fully exhibit the cause of this wide discrepancy, and point out the means whereby it may be obviated (for to the evil certainly remedies may be applied) - and thus each practitioner might guard against the roots on which many have stumbled, & the progress of the science would be stamped with a greater degree of regularity, & it would advance with more hasty tho' not less certain strides towards perfection -

### External Irritants (the subject on which

I purpose making a few remarks in the present dissertation, have perhaps met with few lately & universally to condemn them - but the best mode of application - the circumstances under which they should be resorted to, & the mode in which they produce their effect, have given rise to eager controversy & many disquisitions - But in this case, as in many others, the calm dispassionate practitioner, anxious to promote the best interest of his profession, & pursuing his course unmoved & uninfluenced by the -

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surrounding context. It is not my intention in the present day  
to enter into an elaborate discussion, to point out those indica-  
tions which particularly require the application of this class  
of remedies, but to offer a few remarks respecting their -  
modus operandi.

The manner, in which an epistaxis produces a blister,  
is sufficiently intelligible I shall shew. By the irritation of the es-  
charotic the vessels of the coat are stimulated to more vigorous action,  
inflammation is excited - effusion is the consequence, & the capsa-  
rises, but not permitting the exhaled fluid to escape, a morbid  
or blister is formed. Altho' this immediate effect of the application  
is sufficiently explainable the process, made in which they  
relieve disease, is a point much disputed. I was once sope-  
posed, that the acrid particles were absorbed into the system,  
in this manner, was explained the remedial efficacy. This  
hypothesis now, however, claims but few advocates, and it is un-  
necessary to dwell upon it.

It was, also, formerly thought, that the benefit chiefly arose from  
the evacuation. And this, is sometimes productive of good, as  
our will, perhaps, pretends to dispute. but on this principle

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ably, in every case to account for this salutary tendency - is to decide  
 before reflecting or observing - for the fact that the desired relief is  
 sometimes obtained before effusion takes place - shows the fallacy  
 of the theory. As also the disproportion between the relief obtained, & the  
 quantity of fluids evacuated - militates against the supposition -  
 There are, perhaps, but few cases where any evidently marked &  
 great advantage is derived from the more evocative. I am  
 least of cellular Dropsy, & it.

Altho' benefit thus may occasionally arise from the  
 primary effusion, we also sometimes obtain it from the sec-  
 ondary discharges viz. that of pus. The advantage of a drain of  
 this kind, is frequently exemplified in the effects of issue  
 &c. in various diseases of the lungs, liver, joints &c. as also in the  
 case of purulent discharges from behind the ear of children,  
 which, when suddenly suppressed, are followed by consequences  
 of a serious nature - which are obviated only by a renewal of  
 the discharge. It may, perhaps, be made a question whether  
 the benefit is actually to be attributed to the discharge - but I should  
 be inclined to think not; but rather to the derivation from  
 other parts to that, where the discharge takes place. No one will

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supposes, that by the superfluous matter is eliminated from the system. ~~Subsequent~~ ~~discharge~~ action is induced. but by following if I may use the expression, the fuel which feeds the flame.

It has lately been observed, that but little advantage is derived from these applications, - unless they be "somewhat painful" and that it is the irritation rather than the discharge, which constitutes the cause of their utility. - That they should be necessarily attended with pain to produce their effect, appears contradictory by experience. - We see not frequently witness the benefit of a blister, where the patient, at the time is sensible of no pain in the part? And, not merely so, but we see not sometimes see the apparently anodyne effect of the application? We see not see the salutary tendency of an issue, unless pain be a necessary attendant, not only? That irritation may be requisite seems explicit, for without some irritating cause, the discharge would not perhaps be kept up. - The irritation we can readily conceive to exist, without the system being conscious of pain, as far as arises from the state of pain. The irritation is necessary, in as much as it keeps up a determination to the part, & the discharge is a symptom or evidence of that irritation.

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May we not suppose that in cases of acute inflammatory action, hemorrhifit would arise, & probably the chief benefit ~~the~~ arise, from a painful external application, than we should derive from an open issue accompanied with pain? But in case of chronic inflammation particularly, may we not suppose benefit to arise independently of any sensible irritation? Does not daily experience verify the supposition? Whether a description of painful irritants would not, under these circumstances more effectually, perhaps more speedily accomplish the object, may admit of question, but that the gradual operation of the former remedy is productive of no utility cannot be allowed.

Barnefield in an essay on Abscesses &c. of the Hip in the London Medical & Physical Journal, relates a case of the abscess of the hip joint, where the patient "was affected by the eruption of vesicles, followed by a very numerous crop of pustules all over the body. During the period of Pox, the discharge from the abscess around the hip joint rapidly diminished, and at last it stunk from the termination of Small Pox they had quite healed and ceased to discharge." In this case, he presumes to say, "it would seem as if the eruption of Small Pox acted as it

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now by Metastasis in transferring the seat of pain from around the hip-joint to the knee - or the salutary mode of operation may be by counter-irritation. "Now will not say that the discharge is invariably to receive credit for the obtained relief - Nor do we think it generally to be the cause, on the contrary, circumstances appear to warrant the conclusion, that such is most frequently to attribute the benefit to other Cause which will be hereafter mentioned. Still, that we should follow the example of some late writers, and condemn this as production of no good, would be perhaps to make too bold a guess.

The efficacy of the applications, Colles thinks arise from their relieving Spasm - This antispasmodic virtue is certainly frequently apparent, but it arises perhaps from an indirect effect. After the application of absolute anodyne poise the skin which was previously hot and dry, to become moist & cool, & the salutary effect of the application, may appear dependant on its relaxing power; but some local internal pain - inflammation - or congestion, may have been the probable Cause of this unhealthy condition of the surface, & by the relief afforded to the deep seated part

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also the eruptions, and permits to resume their healthy course  
of a blood, and, with the rest, those of the skin. From the relief fre-  
quently obtained by the application in some of the most painful  
neuralgic diseases, it has been suggested, "that there may be a  
balance between the excitement of the internal & external nervous  
power, as there more evidently is of the circulation." (Parr) And  
upon this hypothesis would be explained the antispasmodic  
effect of the remedy.

Altho' we think we have reason to think that, <sup>especially</sup> in eruptions, &  
other similar applications, may, in particular cases, be productive  
of good in the manner above alluded to, still this chief  
advantage we conceive to be explicable on different principles.  
The irritation from tartar emetic applied as an ointment,  
that from Iodine &c, are followed frequently by the most  
salutary result, & sometimes before any discharge whatever  
takes place. It had been long observed, that exciting one pain  
will frequently relieve another; thus, in violent paroxysms of  
Tooth ache - a blister behind the ear will often afford effectual  
relief - We also see the same result from the application in cases  
of pleurisy, hepatitis, pharyngitis, inflammation of the uterus &c.

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inflammation. In other cases we are told, "that they excite a new action in the parts which by virtue of what Aristotle calls contagious Sympathy, elicits that upon which the disease depends." (Paris) — Between many parts of the system there exists a close and intimate Sympathy & the nature of the action going on in one may materially affect the nature of that in the other. And thus by changing the action of a part previously in health but already sympathizing with one in disease, we may change the action of the diseased part, as to restore it to a healthy state. And Nature generally attentive to the welfare of the system, would sometimes seem to institute a disease as a guard to prevent its attacking another. When death & decomposition might be the consequence. Thus fistula in ano would sometimes appear to be a substitute for a diseased action of the lungs. May we not naturally come to this conclusion when we remember that if one be affected in a person labouring under this disease, that person will almost invariably become the victim of Pulmonary Consumption?

We are frequently led to upon to entertain and admit the truth of that sympathy existing between different parts of the body

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that constitutes - it is the medium of this sympathy the most ob-  
-tuse physiologists have not been able to detect. Paris calls it "a  
mysterious medium"; and thus we must for the present suspend  
it the effects of its operations are marked & evident. Sir  
Gilbert Blane defines it "a mutual influence of distant parts,  
so subtle & rapid as in some instances to be compared to thought  
or to lightning; in other cases it is an action more tardy and  
habitual." The medium of this communication; the same  
valuable author states; is probably some imperceptible fluid.  
This principle is perhaps constantly in operation but in a  
state of health it may be so tardy & habitual\* as not to attract  
attention. It is in a state of disease - when its harmony of action  
is interrupted, that we find its operations strikingly marked.  
To enumerate the various instances of this mysterious  
medium\*, with which we are presented would be unnecessary.  
It is, however, an interesting subject of reflection. A few remarks  
may be desirable as introductory to a further explanation of  
the medium of action of external irritants - There are few, if  
any parts of the system which display a more evident and  
extensive sympathy with other parts, than does the skin.

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It is a fruitful source of disease, and presents an open field for the diseased & successful application of remedial agents.

Sympathy has been divided into remote, contiguous, & nervous and continuous. The first implying that which exists between different parts without any connection sufficient to account satisfactorily for its existence. Such as the violent pain sometimes felt in the gutta serena in Gout, & pain in the Shoulder in inflammation of the liver &c. Contiguous, is that which appears to have no other connection than arises from the contact of separate parts.

The continuous, - "that when there is no interruption of parts & the sympathy is continued from the irritating point, as from a blister, & as it is gradually lost in the surrounding parts as in proportion to the distance." Osborn, however, taking a somewhat different view of the subject divides it into the sympathy of equilibrium & that of association. In the first one part is increased & weakened by the increased action of another, & in the second two parts act together as the same. He subdivides the sympathy of association into the interrupted, which would seem to be much the same as the remote of

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of Nerve, and the spreading which would appear to come from  
 toward the continuous. The sympathy of equilibrium, as Burns has  
 - understands it, would seem most generally to exist between next  
 distant parts, thus the inflammation & irritation caused in the  
 bladder by the presence of a stone, lessens the power of the  
 sympathizing Stomach. The same is observed in the infla-  
 - mation of the kidneys. Thus we also see when the action of the  
 intestine is increased - a diminished action of the Stomach  
 exists & vice versa. The same may be remarked of the Stomach  
 and liver - of the Stomach & brain &c. The same holds good  
 and respect to the Skin. Since in various instances of external  
 action in internal parts - that of the skin is torpid & inactive,  
 And may we not upon this principle explain the benefit  
 arising from the judicious application of external irritants in  
 many cases? By the external irritation the action of the  
 internal inflamed part, whose disease we wish to remove,  
 becomes weakened and the difficulty arising from its  
 inflamed state obviated? Operating apparently somewhat  
 upon the principle of resolution - derivation - or counter irritation  
 - minution - Something in the same manner that Bleeding

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acts as Hemostatic. - Altho' it was, surprising to the mind of  
Reberius, how this remedy could act hemostatically in cases of  
hemorrhage - till the nature of it is considered by daily expe-  
rience - it acting by a division of the current of blood  
from the diseased parts.

There are instances however, in which external anti-  
septic appears to increase the action of sympathizing  
parts - They are few - but still some exists. In these  
cases Burns says the action must be suddenly and for  
a short time increased. An explanation of the beneficial  
result obtained in some of these cases was suggested by  
the funeral of several cases related by Dr. Cummings in the  
Edinburgh Medical & Surgical Journal - These were  
dissections of individuals whose death had been caused by  
burns and in all which he discovered effusion in the  
Internal Cavities. He says "the occurrence of inflammation  
and effusion in internal parts - after the surface has been  
burnt may be regarded as the effort of nature to relieve  
herself from the consequences of so severe an injury & I may  
perhaps, furnish an illustration of the mode in which



internal parts, in a state of inflammation, are relieved by the  
application of venicatories to the surface." The superior  
 efficacy of moras on the internal contents is offering  
 relief in many cases of internal disease has lately been  
 repeatedly noticed. And, may not the advantage obtained  
 in many of these cases be explained on this principle?

Venicatories are, however, productive of much benefit  
 not only in removing local morbid affections but have  
 frequently a very powerful effect, & are highly useful in  
 cases of a general or constitutional nature. This is particularly  
 exemplified in the result of their applications in many  
 low diseases as Typhus &c. Hence they appear to possess  
 a stimulating power. The slowest & dormant powers of the  
 circulation are roused to increased activity. The torpid,  
 languid, energies of the system are thus frequently roused  
 from their lethargy of action & quickly restored to a healthy  
 state. The general ability of the system may, in some  
 instances, be owing to a faulty disordered action of some  
 internal part, & in these cases, the invigoration of the system  
 at large, is caused by solidifying the more local morbid action.

*[Faint, illegible handwriting in cursive script, likely a list or journal entry.]*

From the

End of

the 10th

day of

the 10th

the 10th

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There are some constitutions, in which they display a decidedly cordial & exhilarating effect. This, however, is found perhaps in those of a particular constitution; "it is generally found" says Dr Parr "in those of full habit and languid circulation & here arises from their relieving the congested vessels."

The above reflections on the subject of external irritants I have thrown together fully sensible how imperfect they are, I am, notwithstanding, induced to present <sup>them</sup> to the faculty, for their examination - knowing they will make every allowance for what may be the consequence of haste & want of experience - observation & more extensive reading.

It is a common observation that the more we know of a thing, the less we value it. This is true in many cases, but it is not true in all. There are many things which we value more as we know more of them. For example, we value a rare book more as we learn more of its history and the value of its contents. We value a rare plant more as we learn more of its uses and the beauty of its flowers. We value a rare animal more as we learn more of its habits and the beauty of its form. In all these cases, the more we know of a thing, the more we value it.

The same observation may be made of many other things. We value a rare painting more as we learn more of its history and the value of its contents. We value a rare piece of music more as we learn more of its composition and the beauty of its melody. We value a rare piece of literature more as we learn more of its author and the value of its contents. In all these cases, the more we know of a thing, the more we value it.

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